SNAKE RIVER MAIN STEM

13069500 SNAKE RIVER NEAR BLACKFOOT, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962-1973, 1975-1981, July 1989 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June to September 1994, May to September, 1996 (discontinued).

INSTUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 22.5 °C Aug. 2-4, 1994.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 22.2 °C July 27.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (0.3 0)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (0.3 1)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
APR											
25...	0945	13000	354	8.1	6.0	6.0	5.5	12.3	115	K22	48
MAY											
29...	1030	18700	282	8.1	13.5	11.5	15	8.6	93	44	150
JUN											
21...	0845	16500	270	8.1	15.5	13.5	19	8.0	91	100	100
JUL											
18...	1215	5210	310	8.2	16.0	16.5	3.4	7.7	92	59	65
AUG											
22...	1110	1780	341	8.3	15.5	16.0	0.9	7.9	94	40	44
SEP											
19...	1015	4900	363	8.0	9.5	11.0	1.3	8.7	93	160	310

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER WH FET FIELD MG/L AS HCO3 (00440)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)
SEP								
19...	150	42	11	11	14	2.1	160	131

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (7.3 0)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (7.3 1)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (7.3 3)	SOLIDS, DIS-SOLVED (TONS PER DAY) (7.3 2)
SEP								
19...	31	9.0	0.7	14	204	201	0.28	2700

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR								
25...	<0.01	0.18	<0.015	0.2	0.05	<0.01	36	1260
MAY								
29...	<0.01	0.15	0.030	0.3	0.07	0.01	84	4240
JUN								
21...	<0.01	0.09	0.030	0.2	0.04	0.02	50	2230
JUL								
18...	<0.01	0.24	0.030	<0.2	0.02	0.01	32	450
AUG								
22...	<0.01	0.26	<0.015	<0.2	<0.01	<0.01	8	38
SEP								
19...	<0.01	0.28	<0.015	<0.2	0.01	<0.01	16	212

K Results based on counts outside ideal colony range.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	APRIL			MAY			JUNE		
1	---	---	---	---	---	---	13.6	11.1	12.4
2	---	---	---	---	---	---	14.6	12.1	13.3
3	---	---	---	---	---	---	15.4	12.8	14.2
4	---	---	---	---	---	---	16.8	13.8	15.1
5	---	---	---	---	---	---	16.5	13.8	15.0
6	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	18.2	15.5	16.7
11	---	---	---	---	---	---	17.7	15.2	16.4
12	---	---	---	---	---	---	17.3	14.9	16.0
13	---	---	---	---	---	---	17.1	14.9	16.0
14	---	---	---	---	---	---	17.6	15.0	16.3
15	---	---	---	---	---	---	17.4	15.4	16.4
16	---	---	---	---	---	---	17.4	15.4	16.4
17	---	---	---	---	---	---	17.3	15.0	16.1
18	---	---	---	---	---	---	16.4	14.1	15.0
19	---	---	---	---	---	---	15.2	13.0	14.1
20	---	---	---	---	---	---	14.9	13.0	14.0
21	---	---	---	---	---	---	15.8	13.3	14.5
22	---	---	---	---	---	---	15.8	13.6	14.7
23	---	---	---	---	---	---	16.1	13.6	14.8
24	---	---	---	---	---	---	16.1	14.1	15.1
25	---	---	---	---	---	---	16.8	13.9	15.3
26	---	---	---	---	---	---	16.5	14.7	15.7
27	---	---	---	---	---	---	16.8	14.7	15.8
28	---	---	---	---	---	---	15.9	14.4	15.1
29	---	---	---	---	---	---	16.3	13.9	15.0
30	---	---	---	12.4	10.2	14.7	16.9	13.9	15.5
31	---	---	---	13.2	10.8	11.9	---	---	---
MONTH	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JULY			AUGUST			SEPTEMBER		
1	17.7	15.2	16.5	20.2	18.5	19.5	18.4	15.8	17.1
2	---	---	---	20.5	18.2	19.3	17.9	15.4	16.6
3	---	---	---	19.4	17.3	18.2	18.1	15.4	16.7
4	---	---	---	17.9	15.8	16.9	18.4	15.8	17.0
5	---	---	---	17.9	15.4	16.6	17.0	14.8	16.2
6	---	---	---	17.4	15.2	16.4	16.3	13.3	14.8
7	---	---	---	18.4	15.2	16.7	16.5	13.9	15.2
8	---	---	---	19.5	16.3	17.9	16.6	13.9	15.2
9	---	---	---	20.0	17.3	18.5	17.4	14.4	15.8
10	---	---	---	---	---	---	17.3	15.0	16.2
11	---	---	---	---	---	---	16.8	16.0	16.4
12	---	---	---	---	---	---	17.9	14.9	16.4
13	---	---	---	---	---	---	17.9	16.3	17.0
14	---	---	---	---	---	---	16.8	15.6	16.2
15	---	---	---	---	---	---	16.3	14.6	15.4
16	---	---	---	---	---	---	15.1	13.0	13.8
17	---	---	---	---	---	---	13.8	12.2	12.8
18	---	---	---	---	---	---	12.7	11.4	12.2
19	19.7	16.3	18.1	---	---	---	12.4	11.1	11.9
20	19.2	16.1	17.8	---	---	---	13.3	11.1	12.2
21	19.5	16.0	17.8	---	---	---	14.2	12.4	13.2
22	20.2	16.5	18.2	---	---	---	13.9	12.0	13.0
23	20.7	16.8	18.7	20.2	16.1	18.1	13.2	10.8	12.0
24	20.8	18.1	19.4	20.7	16.3	18.5	12.6	11.3	12.1
25	21.7	18.4	19.8	20.5	16.8	18.7	13.2	11.8	12.4
26	---	---	---	20.5	16.8	18.6	12.4	11.0	11.7
27	22.2	18.7	20.5	20.2	17.9	19.0	12.4	10.4	11.3
28	20.5	19.2	19.9	19.5	16.9	18.2	13.2	11.0	12.0
29	20.5	19.2	19.8	20.0	16.5	18.3	13.8	11.3	12.5
30	21.5	19.0	20.2	19.9	17.1	18.5	14.2	11.8	12.9
31	21.2	18.9	20.0	19.7	16.9	18.1	---	---	---
MONTH	---	---	---	---	---	---	18.4	10.4	14.3

SNAKE RIVER MAIN STEM

13069500 SNAKE RIVER NEAR BLACKFOOT ID--Continued

BIOLOGICAL DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	ORGANISM	INDI-VIDUALS IN SAMPLE (NO.) (81614)	WEIGHT SAMPLE BIOTA TISSUE COMP. AVERAGE (GRAMS) (01373)	LENGTH SAMPLE BIOTA TISSUE COMP. AVERAGE (CM) (01371)	ALUMI-NUM, BIOTA, TISSUE, DRY WGT REC (UG/G) (49237)	ANTI-MONY, BIOTA, TISSUE, DRY WGT REC (UG/G) (49246)	ARSENIC BIOTA, TISSUE, DRY WGT REC (UG/G) (49247)	BARIUM, BIOTA, TISSUE, DRY WGT REC (UG/G) (49238)
SEP									
10...	1000	Utah sucker liver	5	1595	55	<1.0	<0.2	1.0	<0.1-

DATE	BERYL-LIUM-, BIOTA, TISSUE, DRY WGT REC (UG/G) (49248)	BORON, BIOTA, TISSUE, DRY WGT REC (UG/G) (49239)	CADMIUM BIOTA, TISSUE, DRY WGT REC (UG/G) (49249)	CHROM-IUM-, BIOTA, TISSUE, DRY WGT REC (UG/G) (49240)	COBALT, BIOTA TISSUE, DRY WGT REC (UG/G) (49250)	COPPER, BIOTA, TISSUE, DRY WGT REC (UG/G) (49241)	IRON, BIOTA, TISSUE, DRY WGT REC (UG/G) (49242)	LEAD, BIOTA, TISSUE, DRY WGT REC (UG/G) (49251)	MANGAN-ESE, BIOTA, TISSUE, DRY WGT REC (UG/G) (49243)	MERCURY BIOTA, TISSUE, DRY WGT REC (UG/G) (49258)
SEP										
10...	<0.2	0.3	1.6	0.6	0.2	87	920	<0.2	9.3	1

DATE	MOLYB-DENUM, BIOTA, TISSUE, DRY WGT REC (UG/G) (49252)	NICKEL, BIOTA, TISSUE, DRY WGT REC (UG/G) (49253)	SELEN-IUM, BIOTA, TISSUE, DRY WGT REC (UG/G) (49254)	SILVER, BIOTA, TISSUE, DRY WGT REC (UG/G) (49255)	STRON-TIUM, BIOTA, TISSUE, DRY WGT REC (UG/G) (49244)	VANA-DIUM BIOTA, TISSUE, DRY WGT REC (UG/G) (49465)	ZINC, BIOTA, TISSUE, DRY WGT REC (UG/G) (49245)	URANIUM BIOTA, TISSUE, DRY WGT REC (UG/G) (49257)	WATER, PRESENT BIO TIS DRY WGT REC PERCENT (49273)
SEP									
10...	1.0	<0.2	5.3	1.2	0.4	0.4	170	<0.2	78

DATE	TIME	ORGANISM	INDI-VIDUALS IN SAMPLE (NO.) (81614)	WEIGHT SAMPLE BIOTA TISSUE COMP. AVERAGE (GRAMS) (01373)	LENGTH SAMPLE BIOTA TISSUE COMP. AVERAGE (CM) (01371)	ALDRIN, BIOTA, WH ORG WW, REC (UG/KG) (49353)	CIS-CHLOR-DANE, BIOTA, WH ORG WW, REC (UG/KG) (49380)	TRANS-CHLOR-DANE, BIOTA, WH ORG WW, REC (UG/KG) (49379)	DCPA, BIOTA, WH ORG WW, REC (UG/KG) (49378)	O,P'-DDT, BIOTA, WH ORG WW, REC (UG/KG) (49377)	P,P'-DDT, BIOTA, WH ORG WW, REC (UG/KG) (49376)
SEP											
10...	1000	Utah sucker	7	1459	46	<5.00	<5.00	<5.00	<5.00	<5.00	13.0

DATE	P,P'-DDD, BIOTA, WH ORG WW, REC (UG/KG) (49375)	O,P'-DDD, BIOTA, WH ORG WW, REC (UG/KG) (49374)	O,P'-DDE, BIOTA, WH ORG WW, REC (UG/KG) (49373)	P,P'-DDE, BIOTA, WH ORG WW, REC (UG/KG) (49372)	DIEL-DRIN, BIOTA, WH ORG WW, REC (UG/KG) (49371)	HEPTA-ENDRIN, BIOTA, WH ORG WW, REC (UG/KG) (49370)	HEPTA-CHLOR CHLOR, BIOTA, WH ORG WW, REC (UG/KG) (49369)	BENZENE HEXA-EPOXIDE BIOTA, WH ORG WW, REC (UG/KG) (49368)	ALPHA-CHLORO-BIOTA, WH ORG WW, REC (UG/KG) (49367)	BETA-BHC, BIOTA, WH ORG WW, REC (UG/KG) (49366)	DELTA-BHC, BIOTA, WH ORG WW, REC (UG/KG) (49365)	BHC, BIOTA, WH ORG WW, REC (UG/KG) (49364)
SEP												
10...	E17.0	<5.00	<5.00	250	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00

DATE	LINDANE BIOTA, WH ORG WW, REC (UG/KG) (49363)	METHOXY CHLOR, O,P'-, BIOTA, WH ORG WW, REC (UG/KG) (49362)	METHOXY CHLOR, P,P'-, BIOTA, WH ORG WW, REC (UG/KG) (49361)	MIREX, BIOTA, WH ORG WW, REC (UG/KG) (49360)	CIS-NONA-CHLOR, BIOTA, WH ORG WW, REC (UG/KG) (49359)	TRANS-NONA-CHLOR, BIOTA, WH ORG WW, REC (UG/KG) (49358)	OXY-CHLOR DANE, BIOTA, WH ORG WW, REC (UG/KG) (49357)	PENTA CHLORO ANISOLE BIOTA, WH ORG WW, REC (UG/KG) (49356)	PCB, BIOTA, WH ORG WW, REC (UG/KG) (49354)	TOXA-PHENE, BIOTA, WH ORG WW, REC (UG/KG) (49355)	LIPIDS, BIOTA, WH ORG WW, REC PERCENT (49289)
SEP											
10...	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	60.0	<200	16.0

BIOLOGICAL DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

FISH COLLECTION DATA

COLLECTION METHODS.--Electrofishing; backpack (11A), boat (13A).

LENGTH OF REACH.--885 m.

TIME ELAPSED FOR EACH COLLECTION METHOD.--Backpack (11A)-0.17 hours; boat (13A)-0.61 hours.

ANOMALY CODES.--AA-none; DE-deformities; ER-eroded fins; LE-lesions; TU-tumors; AL-anchor worms; BL-black spot; CL-leeches; IC-ich; NE-blind; PA-other parasites; PE-popeye.

HABITAT QUALITY INDEX.--NA.

REMARKS.--Large river.

ORGANISM **FAMILY** *GENUS SPECIES* (COMMON)	DATE	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	LENGTH RANGE TOTAL MM	WEIGHT RANGE IN GM	ORIGIN	TROPHIC GROUP OF ADULTS	TEMPER-ATURE PREFER-ENCE	NUMBER AND TYPE OF ANOMALY
	Sept. 10								
Catostomidae (Suckers)									
Catostomus platyrhynchus (Mountain sucker)		1	0.44	198	98	NATIVE	HERBIVORE	COLD	1-DE
Catostomus ardens (Utah sucker)		25	11.1	42-596	1-2245	NATIVE	OMNIVORE	WARM	1-TU, 1-LE 4-NE, 1-DE 18-AA
Cottidae (Sculpins)									
Cottus bairdi (Mottled sculpin)		26	11.5	40-112	1-25	NATIVE	INVERTIVORE	COLD	26-AA
Cyprinidae (Carps and minnows)									
Cyprinus carpio (Common Carp)		2	0.88	595-765	4300-7500	INTRODUCED	OMNIVORE	WARM	2-AA
Richardsonius balteatus (Redside shiner)		39	17.2	41-95	1-8	NATIVE	INVERTIVORE	COLD	39-AA
Rhynichthys osculus (Speckled dace)		14	6.19	31-77	1-5	NATIVE	INVERTIVORE	COLD	14-AA
Percidae (Perches)									
Perca flavescens (Yellow perch)		38	16.8	74-163	4-58	INTRODUCED	INVERTIVORE	COOL	38-AA
Salmonidae (Trouts)									
Salmo trutta (Brown trout)		39	17.2	72-178	4-60	INTRODUCED	INVERTIVORE	COLD	39-AA
Prosopium williamsoni (Mountain whitefish)		33	14.6	91-463	5-813	NATIVE	INVERTIVORE	COLD	1-LE, 1-ER 31-AA
Oncorhynchus mykiss sp. (Rainbow trout)		9	3.98	150-335	41-150	[a]INTRODUCED	INVERTIVORE	COLD	9-AA

TOTAL NUMBER OF TAXA 10
TOTAL INDIVIDUALS 226

a-Rainbow trout are considered native in Idaho downstream of Shoshone Falls and introduced upstream of Shoshone Falls.

WATER-QUALITY RECORDS

COLLECTION METHODS.--Composite of 5, 0.25 m^2 samples. Richest targeted habitat--riffles, whole sample.
MESH SIZE.--425 um.

AVERAGE DEPTH.--0.31 m.

AVERAGE PERCENT SHADING.--9.

AVERAGE VELOCITY.--0.64 m/s.

SUBSTRATE EMBEDDEDNESS CLASS RANGE.--4.

PERCENT FINES RANGE.--0-10.

HABITAT QUALITY INDEX.--NA.

REMARKS.--Large river, riffles uncommon.

BIOLOGICAL DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
BENTHIC INVERTEBRATE COLLECTION DATA

ORGANISM **TAXON** *GENUS SPECIES*	DATE SEP. 10	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	FUNC-TIONAL FEEDING GROUP	POLLU-TION TOLER-ANCE VALUE
NON-INSECTS					
Oligochaeta		56.25	0.56	CG	5
Sphaeriidae		18.75	0.19	CG	8
Ferrissia		37.5	0.38	SC	6
Fluminicola		18.75	0.19	SC	8
Stagnicola coperata		243.8	2.45	CG	6
Vorticifix effusa		18.75	0.19	SC	6
Ostracoda		18.75	0.19	CG	8
Acari		93.75	0.94	PA	5
EPHEMEROPTERA					
Acentrella turbida		225	2.26	CG	4
Baetis tricaudatus		375	3.77	CG	6
Ephemerella inermis/infrequens		2381	23.92	CG	1
Heptagenia		56.25	0.56	SC	4
Rhithrogena		300	3.01	SC	0
Stenonema		56.25	0.56	SC	5
Choroterpes		18.75	0.19	CG	7
Tricorythodes minutus		56.25	0.56	CG	4
PLECOPTERA					
Claassenia sabulosa		18.75	0.19	PR	3
Perlodidae-early instar		18.75	0.19	PR	2
Isoperla		281.3	2.82	PR	2
TRICHOPTERA					
Protoptila		18.75	0.19	SC	1
Hydropsyche		1294	12.99	CF	4
Hydroptila		37.5	0.38	PH	6
Ceraclea		18.75	0.19	OM	3
Psychomyia		112.5	1.13	SC	2
LEPIDOPTERA					
Petrophila		300	3.01	SC	5
COLEOPTERA					
Optioservus		18.75	0.19	SC	4
DIPTERA					
Simuliidae		18.75	0.19	CF	6
CHIRONOMIDAE					
Chironomidae-pupae		318.8	3.2	UN	6
Cricotopus		1313	13.18	CG	7
Cricotopus Bicinctus Gr.		150	1.51	CG	7
Cricotopus Trifascia Gr.		1313	13.18	CG	6
Dicrotendipes		112.5	1.13	CG	8
Eukiefferiella		37.5	0.38	OM	8
Orthocladius Complex		168.8	1.69	CG	6
Paratanytarsus		75	0.75	UN	6
Polypedilum		318.8	3.2	OM	6
Rheotanytarsus		37.5	0.38	CF	6

TOTAL NUMBER OF TAXA	37	EPT ABUNDANCE	5268/m^2
TOTAL NUMBER OF ORGANISMS	9957/m^2	NUMBER EPT TAXA	16
HILSENHOFF BIOTIC INDEX	4.25	SHANNON DIVERSITY INDEX (H)	3.78

13069500 SNAKE RIVER NEAR BLACKFOOT, ID--Continued

COLLECTION METHODS.--Qualitative multiple habitat, relative abundance, whole sample.
MESH SIZE.--210 um.
GEAR TYPE.--D-frame net and visual collections.

REACH LENGTH.--885 m.

AVERAGE WIDTH.--90 m $_{e}$.

HABITAT QUALITY INDEX.--NA.

REMARKS.-- Large river, riffles uncommon.

BIOLOGICAL DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
BENTHIC INVERTEBRATE COLLECTION DATA

ORGANISM **TAXON** *GENUS SPECIES*	DATE SEP. 10	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	FUNC-TIONAL FEEDING GROUP	POLLU-TION TOLER-ANCE VALUE
NON-INSECTS					
Nematoda		12	0.39	PA	5
Oligochaeta		210	6.9	CG	5
Hirudinea		6	0.2	PR	10
Sphaeriidae		42	1.38	CG	8
Ferrissia		6	0.2	SC	6
Fluminicola		6	0.2	SC	8
Stagnicola coperata		234	7.69	CG	6
Physella integra		42	1.38	CG	8
Copepoda		36	1.18	CG	8
Ostracoda		30	0.99	CG	8
Acari		6	0.2	PA	5
ODONTA					
Ophiogomphus		6	0.2	PR	4
EPHEMEROPTERA					
Baetis tricaudatus		42	1.38	CG	6
Centroptilum		48	1.58	CG	2
Ephemerella inermis/infrequens		156	5.13	CG	1
Heptagenia		6	0.2	SC	4
Choroterpes		6	0.2	CG	7
Paraleptophlebia		96	3.16	CG	4
Tricorythodes minutus		210	6.9	CG	4
PLECOPTERA					
Isoperla		12	0.39	PR	2
TRICHOPTERA					
Brachycentrus occidentalis		6	0.2	OM	1
Hydropsyche		90	2.96	CF	4
Psychomyia		6	0.2	SC	2
LEPIDOPTERA					
Petrophila		12	0.39	SC	5
COLEOPTERA					
Optioservus		6	0.2	SC	4
DIPTERA					
Tipulidae		6	0.2	UN	3
Tipula		6	0.2	OM	4
CHIRONOMIDAE					
Chironomidae-pupae		42	1.38	UN	6
Chironomus		102	3.35	CG	10
Cricotopus		216	7.1	CG	7
Cricotopus Bicinctus Gr.		48	1.58	CG	7
Cricotopus Trifascia Gr.		36	1.18	CG	6
Dicrotendipes		648	21.3	CG	8
Eukiefferiella		18	0.59	OM	8
Parakiefferiella		18	0.59	CG	4
Paratanytarsus		234	7.69	UN	6
Phaenopsectra		216	7.1	SC	7
Polypedilum		48	1.58	OM	6
Pseudosmittia		18	0.59	UN	6
Tanytarsus		18	0.59	CF	6
Thienemannimyia Gr.		36	1.18	PR	6

TOTAL NUMBER OF TAXA	41	EPT ABUNDANCE	678
TOTAL NUMBER OF ORGANISMS	3042	NUMBER EPT TAXA	11
HILLSENHOFF BIOTIC INDEX	6.12	SHANNON DIVERSITY INDEX (H)	4.21

e Estimated

SNAKE RIVER MAIN STEM

13069500 SNAKE RIVER NEAR BLACKFOOT, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
		MAY			JUNE	
1	---	---	---	13.4	10.3	11.8
2	---	---	---	13.2	10.7	12.0
3	---	---	---	13.7	10.7	12.2
4	---	---	---	12.7	10.9	11.8
5	---	---	---	12.9	10.9	11.8
6	---	---	---	13.4	10.9	12.1
7	---	---	---	13.4	11.3	12.4
8	---	---	---	13.8	11.8	12.6
9	---	---	---	12.3	11.3	11.8
10	---	---	---	11.3	9.6	10.6
11	---	---	---	10.9	9.2	10.0
12	---	---	---	10.9	8.9	9.9
13	---	---	---	10.6	9.8	10.3
14	---	---	---	10.1	9.0	9.5
15	---	---	---	10.7	8.6	9.6
16	---	---	---	10.7	8.9	9.9
17	---	---	---	11.0	9.5	10.1
18	---	---	---	11.5	8.9	10.2
19	---	---	---	12.1	9.3	10.8
20	---	---	---	13.2	10.9	12.0
21	---	---	---	12.3	11.2	11.7
22	---	---	---	11.3	10.1	10.8
23	---	---	---	10.3	9.2	9.7
24	---	---	---	11.5	9.2	10.3
25	---	---	---	12.6	9.9	11.3
26	---	---	---	12.0	11.2	11.6
27	---	---	---	12.4	10.4	11.3
28	---	---	---	12.9	10.4	11.6
29	---	---	---	13.7	11.5	12.5
30	---	---	---	14.1	12.0	13.0
31	---	---	---	14.4	12.0	13.1
MONTH	---	---	---	14.4	8.6	11.2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	14.3	12.0	13.1	19.1	16.0	17.5	20.3	18.1	19.3	20.8	17.8	19.2
2	14.1	12.4	13.3	19.9	16.5	18.2	20.5	18.3	19.4	20.7	17.8	19.2
3	13.7	12.6	13.0	20.3	17.1	18.7	20.8	18.4	19.7	21.0	17.9	19.4
4	12.7	11.5	12.0	19.9	17.1	18.5	21.3	18.9	20.1	20.8	18.3	19.4
5	12.6	10.3	11.4	19.2	17.0	18.2	22.0	19.2	20.6	19.9	18.4	19.1
6	13.2	10.9	12.0	19.1	16.6	17.8	22.7	19.7	21.1	19.7	17.9	18.7
7	13.2	11.6	12.4	18.3	16.5	17.5	22.5	19.7	21.1	20.0	17.9	18.9
8	14.0	11.3	12.5	19.1	16.3	17.7	22.7	19.4	20.9	19.5	18.3	18.9
9	13.5	12.3	12.8	19.1	16.3	17.8	22.7	19.2	20.8	19.1	18.1	18.6
10	14.4	12.3	13.3	18.3	16.8	17.4	22.5	18.9	20.5	18.1	17.3	17.7
11	14.6	12.4	13.6	18.9	16.2	17.5	22.7	19.2	20.8	18.4	16.6	17.6
12	15.5	13.2	14.3	18.9	15.7	17.3	23.0	19.5	21.2	17.9	16.3	17.0
13	15.4	13.7	14.7	19.7	16.3	18.0	23.0	19.5	21.2	18.1	16.0	17.0
14	15.9	14.0	14.8	20.0	16.8	18.5	22.8	19.5	21.0	18.6	16.3	17.5
15	14.4	13.2	13.8	20.5	17.0	18.8	21.0	19.4	20.2	18.9	16.8	17.9
16	14.0	12.4	13.0	---	---	---	21.2	18.6	19.9	19.2	17.3	18.3
17	12.7	11.6	12.1	---	---	---	20.5	18.9	19.6	18.6	17.4	18.1
18	13.7	11.5	12.5	---	---	---	19.2	17.9	18.7	18.4	16.5	17.6
19	13.7	12.0	12.8	---	---	---	19.9	17.6	18.6	16.5	15.2	15.8
20	15.1	12.1	13.6	---	---	---	19.2	17.6	18.4	16.6	14.8	15.6
21	15.7	12.9	14.4	---	---	---	19.1	17.4	18.3	15.5	14.4	14.9
22	16.2	14.0	15.1	---	---	---	19.7	17.3	18.4	15.7	14.1	14.8
23	16.8	14.4	15.6	---	---	---	18.9	17.1	18.0	15.7	14.0	14.9
24	16.8	14.4	15.6	21.5	19.7	20.5	18.7	16.3	17.5	15.9	14.3	15.1
25	15.7	14.0	14.6	21.7	18.9	20.2	18.9	16.3	17.7	15.9	14.4	15.0
26	15.2	13.2	14.1	21.7	19.1	20.4	17.9	16.8	17.5	15.2	14.3	14.6
27	15.1	12.3	13.6	21.8	19.1	20.4	19.2	16.0	17.5	15.7	13.7	14.7
28	16.2	13.0	14.6	20.8	19.2	20.1	19.5	16.3	17.9	16.0	14.3	15.1
29	17.3	14.3	15.7	21.8	18.9	20.2	19.5	16.8	18.0	15.9	14.3	15.1
30	18.3	15.4	16.8	21.7	19.2	20.4	19.5	17.0	18.2	15.7	14.4	15.1
31	---	---	---	20.5	19.2	19.9	20.3	17.3	18.7	---	---	---
MONTH	18.3	10.3	13.7	---	---	---	23.0	16.0	19.4	21.0	13.7	17.0

SNAKE RIVER MAIN STEM

13069500 SNAKE RIVER NEAR BLACKFOOT, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962-1973, 1975-1981, July 1989 to September 1996, April to September 1998, April to September 2000 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June to September 1994, May to September 1996, May to September 1998, April to September 2000 (discontinued).

INSTUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 23.1 °C July 31, Aug. 1-2, 2000.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 23.1 °C July 31, Aug. 1-2.

REMARKS.--Missing data due to equipment malfunction.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
APR											
14...	1224	7380	--	--	--	--	--	--	--	--	--
27...	1047	7640	299	8.1	25.0	9.8	3.2	9.8	101	K20	K35
MAY											
05...	1045	3990	--	--	--	--	--	--	--	--	--
18...	1219	4770	335	8.2	16.5	10.8	2.3	9.2	97	K4	K28
25...	1441	3210	332	8.4	21.6	15.8	2.1	10.0	120	K23	K12
JUN											
01...	0945	8290	304	8.1	14.0	11.7	4.9	9.0	97	60	51
08...	0915	5760	329	8.1	27.0	15.2	2.6	8.4	100	K34	K27
14...	1430	4880	338	8.5	24.0	15.1	1.6	11.6	135	K7	K7
JUL											
05...	1158	3450	328	8.0	30.0	17.8	2.1	8.9	110	K25	K12
19...	0845	4170	324	8.1	20.0	17.6	3.3	7.8	95	120	88
AUG											
10...	1305	2170	346	8.3	32.2	20.4	.9	6.7	87	K26	K24
23...	1547	2110	333	8.5	26.0	19.8	<.5	9.8	126	50	K24
SEP											
13...	1250	1310	384	8.2	25.5	15.6	<.5	7.5	88	K8	K13
27...	1333	2250	370	8.4	20.0	11.9	.6	9.0	97	K18	100

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)
SEP									
13...	160	44.0	11.7	12.5	14	2.3	150	2	129

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SOLIDS, SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
SEP								
13...	33.2	9.9	.7	11.7	211	204	.29	746

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR							
14...	--	--	--	--	--	50	996
27...	.169	.006	1.0	.065	.007	45	928
MAY							
05...	--	--	--	--	--	26	280
18...	.077	.006	.22	.031	.002	14	180
25...	.035	.004	.25	.036	.004	--	--
JUN							
01...	.100	.006	.25	.059	.001	--	--
08...	.049	.002	.25	.028	.001	18	280
14...	.058	.004	.21	.025	<.001	13	171
JUL							
05...	.046	<.002	.23	.024	.003	15	140
19...	.062	.008	.34	.041	.003	29	327
AUG							
10...	.590	.003	.21	.016	.003	4	23
23...	.023	.006	.26	.021	.001	8	46
SEP							
13...	.106	.003	.21	.014	.003	3	11
27...	.063	.006	.22	.020	.002	9	55

K Results based on counts outside ideal colony range.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SEDI-MENT DIS-CHARGE, BEDLOAD (TONS/ DAY) (80225)	NUMBER OF SAM-PLING POINTS (COUNT) (00063)	SAMPLE LOC-ATION, CROSS SECTION (FT FM L BANK) (00009)	SAMPLER TYPE (CODE) (84164)	SAM-PLING METHOD, CODES (82398)	BAG MESH SIZE BEDLOAD SAMPLER (MM) (30333)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM (80226)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM (80227)
APR										
14...	1111	7320	62	20	304	1100	1000	.250	0	0
14...	1144	7320	51	20	304	1100	1000	.250	0	0
MAY										
18...	1304	4740	4.9	20	304	1100	1000	.250	0	0
18...	1340	4720	9.0	20	304	1100	1000	.250	0	0
JUN										
08...	1030	5760	8.1	20	294	1100	1000	.250	0	0
08...	1102	5760	8.5	20	294	1100	1000	.250	0	0
AUG										
10...	1340	2260	.20	20	272	1100	1000	.250	0	5
10...	1415	2250	.10	20	272	1100	1000	.250	0	6

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM (80228)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM (80229)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM (80230)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM (80231)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM (80232)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM (80233)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM (80234)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM (80235)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM (80236)
APR									
14...	1	47	64	64	65	65	78	88	100
14...	2	69	92	92	93	94	99	100	100
MAY									
18...	5	86	98	100	100	100	100	100	100
18...	4	74	98	100	100	100	100	100	100
JUN									
08...	2	79	99	100	100	100	100	100	100
08...	3	69	98	100	100	100	100	100	100
AUG									
10...	23	73	86	95	100	100	100	100	100
10...	18	71	88	100	100	100	100	100	100

WATER TEMPERATURE, DEGREES CELSIUS, APRIL TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN
		APRIL			MAY	
1	---	---	---	12.5	10.2	11.4
2	---	---	---	12.7	10.5	11.7
3	---	---	---	13.6	11.1	12.3
4	---	---	---	13.6	12.4	13.0
5	---	---	---	13.5	11.6	12.2
6	---	---	---	11.6	10.7	11.0
7	---	---	---	10.8	9.4	9.9
8	---	---	---	10.2	8.7	9.4
9	---	---	---	10.2	9.1	9.7
10	---	---	---	10.7	9.3	10.0
11	---	---	---	10.4	8.3	8.9
12	---	---	---	9.7	7.9	8.6
13	---	---	---	10.2	8.3	9.2
14	---	---	---	11.6	9.3	10.2
15	---	---	---	12.5	10.2	11.3
16	---	---	---	12.4	11.3	11.8
17	---	---	---	11.9	10.8	11.4
18	---	---	---	12.7	10.8	11.6
19	---	---	---	12.7	11.3	12.0
20	---	---	---	13.6	11.6	12.5
21	---	---	---	14.5	12.5	13.4
22	---	---	---	14.5	13.3	14.0
23	---	---	---	15.3	13.5	14.3
24	---	---	---	15.6	14.2	14.9
25	---	---	---	15.5	14.5	15.0
26	---	---	---	15.6	14.4	15.0
27	---	---	---	15.6	13.9	14.8
28	12.1	10.2	11.2	15.5	14.1	14.9
29	11.6	10.0	11.0	15.2	13.6	14.4
30	12.5	10.2	11.3	14.9	13.1	14.1
31	---	---	---	14.5	12.8	13.6
MONTH	---	---	---	15.6	7.9	12.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	14.2	12.1	13.1	20.0	17.5	18.6	23.1	20.0	21.4	18.4	16.3	17.0
2	14.9	12.7	13.8	19.7	17.5	18.6	23.1	19.8	21.3	16.4	15.5	15.9
3	15.5	13.1	14.3	19.2	17.5	18.3	22.8	19.8	20.8	16.8	14.9	15.7
4	16.4	13.9	15.1	18.0	16.0	16.9	22.8	19.5	20.9	17.4	15.6	16.4
5	16.4	14.4	15.5	18.5	16.1	17.3	21.5	19.3	20.4	16.9	15.6	16.3
6	16.8	14.5	15.6	18.4	16.4	17.4	20.5	18.8	19.7	16.3	15.0	15.7
7	17.2	15.0	16.1	18.8	17.1	17.9	20.8	18.7	19.7	16.6	14.5	15.5
8	16.9	15.3	16.2	19.2	17.4	18.4	20.5	18.7	19.6	16.6	15.0	15.8
9	16.6	14.5	15.3	19.0	17.9	18.5	21.0	19.2	20.0	15.8	14.2	15.0
10	15.2	13.8	14.4	19.0	17.5	17.9	22.0	19.5	20.5	15.6	13.5	14.6
11	15.0	13.5	14.3	19.0	16.8	17.8	21.6	17.2	19.8	16.3	13.9	15.1
12	15.0	13.5	13.9	19.5	17.5	18.6	22.0	15.8	19.1	16.9	14.4	15.6
13	14.9	12.7	13.6	19.7	17.7	18.8	21.8	17.5	19.7	18.2	14.5	16.4
14	15.3	13.3	14.3	19.7	18.5	19.0	22.3	17.1	19.6	18.7	15.0	17.0
15	15.3	14.2	14.9	19.3	18.0	18.7	21.0	17.4	19.4	19.0	15.8	17.5
16	16.1	14.2	15.1	19.7	18.4	19.0	22.0	16.4	19.3	18.8	16.3	17.7
17	16.3	14.5	15.5	19.7	18.7	19.1	21.1	17.1	19.2	19.5	16.9	18.1
18	16.6	14.7	15.6	19.3	17.9	18.6	21.6	17.2	19.4	18.0	16.6	17.4
19	16.4	15.0	15.7	19.5	18.0	18.8	20.6	17.5	19.0	17.2	15.8	16.5
20	16.1	14.5	15.4	19.3	17.7	18.5	19.5	17.2	18.3	16.1	14.2	15.3
21	16.6	14.9	15.7	19.5	17.7	18.6	18.8	16.6	17.8	15.5	14.2	14.8
22	17.4	15.2	16.2	---	---	---	19.8	16.9	18.2	14.2	11.4	12.5
23	18.2	16.4	17.2	---	---	---	19.3	17.4	18.3	11.4	10.4	10.8
24	---	---	---	---	---	---	21.1	17.5	19.1	11.9	10.2	11.0
25	---	---	---	---	---	---	21.1	18.4	19.7	12.2	10.5	11.3
26	---	---	---	---	---	---	21.0	18.5	19.7	12.7	11.0	11.8
27	---	---	---	---	---	---	20.8	18.0	19.4	13.5	11.4	12.4
28	---	---	---	---	---	---	20.1	17.9	18.9	14.1	12.1	13.0
29	---	---	---	22.8	18.8	20.7	20.1	16.9	18.6	14.4	12.8	13.6
30	---	---	---	23.0	19.0	20.9	19.0	17.4	18.0	13.8	12.7	13.1
31	---	---	---	23.1	19.8	21.3	18.2	16.1	17.2	---	---	---
MONTH	---	---	---	---	---	---	23.1	15.8	19.4	19.5	10.2	15.0